

FSA Integration Partner

United States Department of Education

Federal Student Aid



Enterprise Application Integration (EAI)

NSLDS to FPDM

Interface Control Document

Version 1.2

August 7, 2003

Document Change Control

Date	Author	Version	Change Reference
7/15/03	Lisa Phillips	1.0	Initial Document Creation
8/7/03	Nancy Vosburgh	1.1	Updated file names and layouts based on NSLDS's design.
8/11/03	Ron Bennett	1.2	Updated layouts based on NSLDS design.

Approval

Created By:	Lisa Phillips	202.962.0724	Creation Date: 7/15/03
Approved By:			
Tech Sign Off:			

Interface Control Specification

Interface Short Description:	This interface is used to transmit data from NSLDS to the FP Data Mart via the EAI Bus.
Source Application:	NSLDS
Destination Application:	FP Data Mart
Functional Requirement References:	FP Data Mart Release 3 Requirements, Section 30.3
Related Interface Internal Design(s):	FP Data Mart Release 3 Interface Designs, Section 1.2.2
Related Unit Test Document:	
Other Related Interfaces:	The following interfaces will also be modified for Release 3 of the FP Data Mart: PEPS-FPDM FMS-FPDM.
Interface Usage Frequency:	These files will be created and transmitted annually or monthly.
Interface Usage Volume:	3 flat files

Interface Overview

Flow Diagram:



Usage Scenarios:

NSLDS will modify and/or create a set of files to be transmitted via the EAI Bus to the FP Data Mart on an annual or monthly basis for the third release of FP Data Mart. These transfers are in addition to the already existing transfers that were developed during the second release.

#	Name	Description	Object Type	Hardware	Operating System
1	NSLDS	National Student Loan Data System	Flat file	IBM	OS/390
2	EAI BUS	Transports file to FPDM	Flat file	Sun	Solaris 7
3	FPDM	Financial Partners Data Mart	Flat file	Sun	Solaris 2.6

NSLDS (Source) System Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	IBM	OS/390	
2	Operating System	IBM	OS/390	2.1
3	DBMS	IBM	DB2	6.1
4	Transmission Protocol	TBD		

FPDM (Destination) Hardware/Software Components

#	Type	Vendor	Product Name	Version
1	Production Platform	Sun	Sun	

2	Operating System	Solaris	Solaris	2.6
3	DBMS	Oracle		8.1.7.4

Source System Additional Information

#	Type	
1	Production System IP Address	TBD
2	Production System Location	VDC
3	Contracting Organization	Raytheon
4	Developer Location	Falls Church, VA

Destination System Additional Information

#	Type	
1	Production System IP Address	4.20.17.152
2	Production System Location	VDC
3	Contracting Organization	Integration Partner
4	Developer Location	Union Center Plaza, Washington, DC

Source System Responsibilities

#	Type	Responsibility
1	File Modification	<p>Run the extracts for the following file on an annual basis to obtain the GA Cohort Default Rate after the last GA load for the fiscal year on the following approximate dates:</p> <p>dmlenderf.txt</p> <p>September 28, 2003</p> <p>Extract dates for future years will continue to be the last Sunday of the fiscal year.</p> <p>Place the files in the following directory: /ftparea/fp_ftp_in/SrcFiles/NSPEP/</p>
2	File Creation	<p>Run the extracts for the following file on an annual basis to obtain the Account Maintenance Fee for GAs, at least 45 days after the end of the fiscal year on the following approximate dates:</p> <p>dmamf.txt</p>

		<p>September 28, 2003 (First time load) November 30, 2003</p> <p>Extract dates for future years will occur during the November FP Data Mart feed.</p> <p>Place the files in the following directory: /ftparea/fp_ftp_in/SrcFiles/NSPEP/</p>
3	File Modification	<p>Run the extracts for the following file on a monthly basis to obtain the candidate subrogated loan amount after the last GA load for the fiscal year on the following approximate dates (loads should occur the last Sunday of every month, based on Raytheon's load schedule):</p> <p>dmffeloan.txt</p> <p>September 28, 2003 October 26, 2003 November 30, 2003 December 23, 2003</p> <p>Extract dates for future years will continue to be the last Sunday of every month.</p> <p>Place the file in the following directory: /ftparea/fp_ftp_in/SrcFiles/NSPEP/</p>
4	System Configuration	NSLDS is expected to have MQSeries v5.2 installed.

Destination System Responsibilities

#	Type	Responsibility
1	System Configuration	Check for files received and placed in the following directory: /ftparea/fp_ftp_in/SrcFiles/NSPEP

Interface Assumptions

#	Assumption
1	None
2	
3	

Interface Dependencies

#	Dependency
1	None
2	

File Specification #1 - dmlenderf.txt

Header:

Start	End	Length	Type	Description	Valid Values
1	1	1	Char	Record Type	0
2	51	50	Char	Header Title	'Financial Partners F_LNDR_DFLT _Rates Header'
52	59	8	Char	Submit Date	CCYYMMDD
60	80	21	Char	Attribute to complete record length	spaces

File Layout:

Start	End	Length	Type	Description	Valid Values
1	1	1	Char	Record Type	1
2	2	1	Char	Reporting Code Type	G = GA or L = Lender
3	8	6	Char	Reporting Code	XXX for GA or 8XXXXXX for Lender Code (Right Justified blank filled)
9	12	4	Numeric	Cohort Year	Cohort year
13	13	1	Char	Holder Type	C (Current) O (Originating) Space = GA
14	24	11	Numeric	Numerator	Cohort Default Rate calculation value
25	35	11	Numeric	Denominator	Cohort Default Rate calculation value
36	43	8	Char	NSLDS Extract Date	CCYYMMDD
44	80	37	Char	Attribute to complete record length	Spaces

Trailer:

Trailer Start	End	Length	Type	Description	Valid Values
1	1	1	Char	Record Type	9
2	51	50	Char	Trailer Title	'Financial Partners F_LNDR_DFLT _Rates Trailer'
52	60	9	Numeric	Record Count, Count of detail records in the file, excludes header and trailer.	
61	80	20	Char	Attribute to complete record length	spaces

File Specification #2 - dmamf.txt (AMF)

Header:

Start	End	Length	Type	Description	Valid Values
1	1	1	Char	Record Type	0
2	51	50	Char	Header Title	'Financial Partners F_GA_AMF_R PT Header'
52	59	8	Char	Submit Date	CCYYMMDD
60	150	91	Char	Attribute to complete record length	spaces

File Layout:

Start	End	Length	Type	Description	Valid Values
1	1	1	Char	Record Type	1
2	4	3	Char	GA Code	
5	5	1	Char	Loan Type ID	1 = CL 2 = SL 3 = PL 4 = SF 5 = SU 6 = RF
6	9	4	Numeric	Fiscal Year	
10	24	15	Numeric	Total Guaranty Amount	
25	39	15	Numeric	Total Cancellation Amount	
40	54	15	Numeric	Total Net Guaranty Amount	
55	69	15	Numeric	AMF Fee Amount	
70	77	8	Date	Extract Date	CCYYMMDD
78	150	73	Char	Attribute to complete record length	

Trailer:

Trailer Start	End	Length	Type	Description	Valid Values
1	1	1	Char	Record Type	9
2	51	50	Char	Trailer Title	'Financial Partners F_GA_AMF_ RPT Trailer'
52	60	9	Numeric	Record Count	
61	150	90	Char	Attribute to complete record length	spaces

File Specification #3 – dmffeloan.txt

Header:

Start	End	Length	Type	Description	Valid Values
1	1	1	Char	Record Type	0
2	51	50	Char	Header Title	'Financial Partners F_FFEL_Loan Header'
52	59	8	Char	Submit Date	CCYYMMDD
60	150	91	Char	Attribute to complete record length	spaces

File Layout:

Start	End	Length	Type	Description	Valid Values
1	1	1	Char	Record Type	1
2		3	Char	GA Code	Guaranty Agency Code
5	10	6	Char	Lender ID	Lender Code
11	16	6	Char	Servicer ID	Lender Servicer Code

17	22	6	Char	School Code	School Code (OPEID)
23	24	2	Char	School Branch Code	School Branch Code
25	26	2	Char	Loan Type	CL, PL, SF, SL, SU, RF
27	28	2	Char	Loan Status	Open Loan Status Codes
29	43	15	Numeric	Outstanding Principal Balance Amount	Sum of Outstanding Principal Balance
44	58	15	Numeric	Outstanding Interest Amount	Sum of Outstanding Interest Balance
59	73	15	Numeric	Original Guarantee Amount	Sum of Guaranty Amount
74	88	15	Numeric	Total Canceled Amount	Sum of Total Amount Cancelled
89	97	9	Numeric	Total Number of Loans	Count of number of open loans
98	106	9	Numeric	Number of Loans with Incorrect Status	Count of loans the meet criteria for incorrect status
107	115	9	Numeric	Number of loans that meet Subrogation Requirement	Count of loans that meet criteria for subrogation
116	127	12	Numeric	Current Outstanding Principal Balance Amount meeting Subrogation Requirement	Sum of Outstanding Principal Balance Amount meeting criteria for subrogation
128	139	12	Numeric	Current Outstanding Interest Balance Amount meeting Subrogation Requirement	Sum of Outstanding Interest Balance Amount meeting criteria for subrogation
140	147	8	Char	NSLDS Extract Date	CCYYMMDD
148	150	3	Char	Attribute to complete record length	Spaces

Trailer:

Trailer .Start	End	Length	Type	Description	Valid Values
1	1	1	Char	Record Type	9
2	51	50	Char	Trailer Title	'Financial Partners F_FFEL_Loan Trailer'
52	60	9	Numeric	Record Count	

61	150	90	Char	Attribute to complete record length	spaces
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Error Messages:

Error handling will utilize the Common Error Handling API.

#	Code	Message
1	Error - stop processing	Error retrieving from the file directory.
2	Error - stop processing	MQSeries Transfer Utility cannot be called.

Issues and Additional Considerations

Raised By	Issue	Date Needed	Resolution/ Answer	Date Completed	Resolved By
Ron Bennett (Raytheon)	AMF by Loan Type is not calculated and stored in NSLDS. Need to determine whether NSLDS should calculate the fields or the FP Data Mart. The Fee Basis Points should also be considered as they can change from year to year and would alter the calculation.	8/8/03			

Reviewers

Name	Date	Team
Ron Bennett	8/11/03	NSLDS